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Dated: December 9, 2006

Signature:

(Rebecca Butler-Guinan)

Docket No.: 68349-00009USPX  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Carles Puente et al.

Application No.: 10/823,206

Confirmation No.: 4054

Filed: April 13, 2004

Art Unit: 2821

For: MULTIFREQUENCY MICROSTRIP PATCH  
ANTENNA WITH PARASITIC COUPLED  
ELEMENTS

Examiner: H. V. Nguyen

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A summary/abstract translation of the non-English language references is enclosed.

12/12/2006 RFEKADU1 00000024 10823206

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Applicant has not submitted copies of each cited U.S. patent and U.S. patent application in accordance with 37 CFR 1.98(a)(2). Applicant submits herewith copies of any cited non-patent documents and foreign patent documents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 68349-00009USPX. A duplicate copy of this paper is enclosed.

Dated: December 8, 2006

Respectfully submitted,

By 

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ALTERNATIVE TO PTO/SB/08A/B (09/06)

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/823,206-Conf. #4054
				Filing Date	April 13, 2004
				First Named Inventor	Carles Puente
				Art Unit	2821
				Examiner Name	H. V. Nguyen
Sheet	1	of	2	Attorney Docket Number	68349-00009USPX

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		
	A1*	US-6,639,558-A1	10-28-2003	Kellerman et al.
	A2*	US-5,210,542	05-11-1993	Pett et al.
	A3*	US-5,627,550	05-06-1997	Sanad
	A4*	US-5,680,144	10-21-1997	Sanad
	A5*	US-6,414,637-A1	07-02-2002	Keilen
	A6*	US-20030142036-A1	07-31-2003	Wilhelm et al.

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>5</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
	B1	EP-1168493	01-02-2002	Finglas Technologies Ltd	
	B2	WO-02/063714	08-15-2002	Fractus S A	
	B3	WO-03/003503	01-09-2003	Ethertronics Inc	

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	C1	ANGUERA, J. et al., "A Procedure to Design Stacked Microstrip Patch Antennas Based on a Simple Network Model", Microwave and Optical Technology Letters, vol. 30, no. 3, August 5, 2001, pages 149-151		
	C2	DYSON, John D., "The Unidirectional Equiangular Spiral Antenna", IRE Transactions on Antennas and Propagation, October 1959, pages 329-334		
	C3	ANGUERA, Jaume et al., "A Procedure to Design Wide-Band Electromagnetically-Coupled Stacked Microstrip Antennas Based on a Simple Network Model", IEEE, 1999, 4 pages		
	C4	ANGUERA, Jaume et al., "Multifrequency Microstrip Patch Antenna Using Multiple Stacked Elements", IEEE Microwave and Wireless Components Letters, vol. 13, no. 3, March 2003, pages 123-124		
	C5	MOLEIRO, Alexandre et al., "Dual Band Microstrip Patch Antenna Element with Parasitic for GSM", IEEE, 2000, 4 pages		
	C6	ANGUERA, Jaume et al., "Antennas Microstrip Apiladas con Geometria de Anillo", Fractus SA, 2 pages	abs	
	C7	HERSCOVICI, Naftali, "New Considerations in the Design of Microstrip Antennas", IEEE Transactions on Antennas and Propagation, vol. 46, no. 6, June 1998, pages 807-812		
	C8	CARVER, Keith R. et al., "Microstrip Antenna Technology", IEEE Transactions on Antennas and Propagation, vol. AP-29, no. 1, January 1981, pages 2-24		
	C9	CROQ, Frederic, "Multifrequency Operation of Microstrip Antennas Using Aperture Coupled Parallel Resonators", IEEE Transactions on Antennas and Propagation, vol. 40, no. 11, November 1992, pages 1367-1374		

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
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				First Named Inventor	Carles Puente
				Art Unit	2821
				Examiner Name	H. V. Nguyen
Sheet	2	of	2	Attorney Docket Number	68349-00009USPX

	C10	RUMSEY, V. H., "Frequency Independent Antennas", University of Illinois, page 114-118	
	C11	REDDY, K. T. V. et al., "Stacked Microstrip Antennas for Broadband Circular Polarization", IEEE, pages 420-423, 2001	
	C12	YANG, X. H. et al., "Multifrequency Operation Technique for Aperture Coupled Microstrip Antennas", IEEE, pages 1198-1201, 1994	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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